

IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Previously Presented) A wireless communication system,
comprising:

a plurality of antennas for use by one receiver;

a scanner adapted to scan through the plurality of antennas to at least substantially eliminate multipath nulls and provide a signal received from each of the plurality of antennas to the receiver and to impart Doppler modulation onto a received signal, wherein one or more of the received signals from the antennas are severely degraded; and

a receiver having direction finding means for determining the bearing of a received signal in accordance with a phase thereof,

wherein said receiver is configured to eliminate multipath channel impairments caused at least by the severely degraded signals.

2. (Previously Presented) A wireless communication system
according to claim 1; wherein a scan rate of the scanner for scanning each of the plurality of antennas is at least 100 hertz.

3. (Original) A wireless communication system according to claim 1; wherein a scan rate of the scanner for the plurality of antennas is at least 2000 hertz.

4. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas are equidistant from a center point.

5. (Original) A wireless communication system according to claim 4; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about said center point.

6. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas comprises at least three antennae.

7. (Original) A wireless communication system according to claim 1; wherein the scanner continuously scans and connects each of the plurality of antennae in turn to the receiver for a substantially equal period of time.

8. (Previously Presented) A method for communication in a wireless communication environment, comprising:

providing a common transceiver with a plurality of antennas;
continuously scanning through the said plurality of antennas for a substantially fixed period of time by connecting each of the plurality of

antennas to a receiver configured to at least substantially eliminate multipath nulls caused at least by severely degraded received signal samples in a substantially stationary wireless communication environment and to impart Doppler modulation onto a received signal;

determining the bearing of the received signal in accordance with a phase thereof; and

operating the plurality of antennas as a phased array during a transmit mode.

9. (Previously Presented) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment comprises a quasi-stationary wireless communication environment.

10. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment comprises a wireless local area network.

11. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a cordless telephone.

12. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a cordless modem.

13. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a wireless local loop.

14. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a cellular telephone.

15. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a PCS telephone.

16. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a trunked mobile radio system.

17. (Previously Presented) A method for communication in a wireless communication environment according to claim 9; wherein the quasi-stationary wireless communication environment is a mobile satellite communications system.

18. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning connects each of the plurality of antennas to the receiver at least 100 times per second.

19. (Previously Presented) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning connects each of the plurality of antennas to the receiver at least 2000 times per second.

20. (Original) A method for communication in a wireless communication environment according to claim 8; further comprising the step of locating each of the plurality of antennas substantially equidistant from a center point.

21. (Original) A method for communication in a wireless communication environment according to claim 20; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about the center point.